Ontario

Ministry of Natural Resources

Hon. Alan W. Pope
Minister

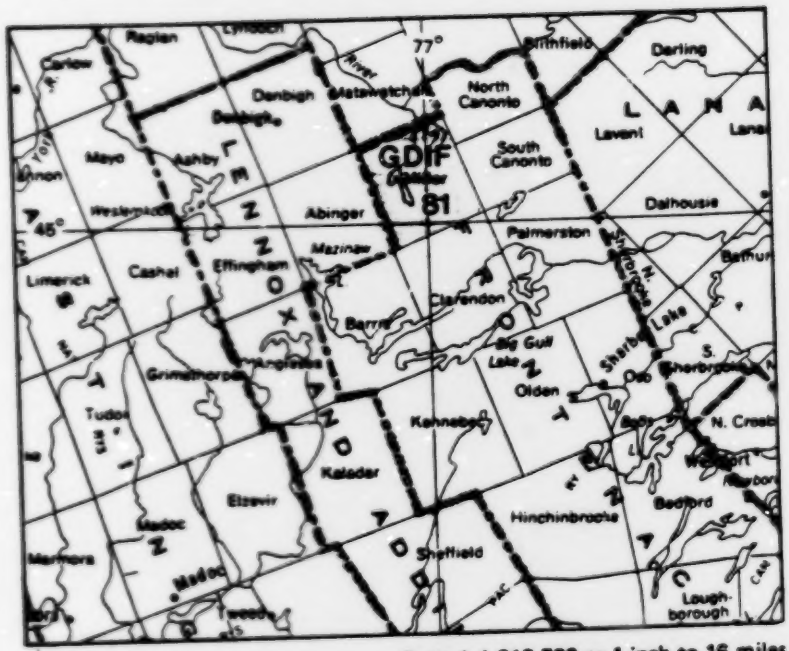
John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY
GEOLOGICAL DATA INVENTORY FOLIO
GDIF 81

MILLER TOWNSHIP

FRONTENAC COUNTY

Compiled by the Staff of
the Resident Geologist's Office,
Tweed



LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

85-1177/

NTS Number 31F/2, 31F/3, 31C/15, 31C/14

Mining Claim Map Number 127

This project was funded by the Mining Sector Work Program under the sponsorship of Barrie Township.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1984: Miller Twonship, Frontenac County; Ontario Geological Survey, Geological Data Inventory Folio 81, Compiled by the staff of the Resident Geologist's office, Tweed, 16p. and 2 maps.

Original Compilation by: David Marek, December, 1982.

Date	Page Revised	Revised by
Jan10 1983		John Easton

Date	Page Revised	Revised by

MILLER TOWNSHIP

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ACCOMPANYING MAPS

Property Location Map - 1 map
Exploration Data Map - 1 map
Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	**20.116 8**	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this map. If no reference data was found, the appropriate box is marked 'no'; if reference was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	J.E.
2	Assessment Files Research Office, Toronto	Yes	J.E.
3	ODM General Index; 7 volumes	Yes	J.E.
4	Catalogue of Airborne Geophysical Surveys (ODM)	Yes	J.E.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	J.E.
6	ODM Industrial Mineral Reports	Yes	J.E.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	N.A.	J.E.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	N.A.	J.E.
9	Newspaper Clippings File	No	J.E.
10	GSC Index to Publications	Yes	J.E.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	J.E.
12	OGS Index Maps	Yes	J.E.
13	Source Mineral Deposit Records (O.G.S.)	Yes	J.E.
14	Author - Subject Articles File	No	J.E.
15	Miscellaneous Papers: ODM & OGS	No	J.E.
16	ODM Geological Circulars: OGS Study Series	No	J.E.
17	ODM Preliminary Reports: ODM Bulletins	No	J.E.
18	ODM – OGS Open File Reports	Yes	J.E.
19	OGS Northern Ontario Engineering Geology Terrain Studies	N.A.	J.E.
20	OGS Aggregate Resources Inventory Papers	N.A.	J.E.
21	OGS Mineral Potential Maps	Yes	J.E.
22	Aerial Photographs on file, Tweed	Yes	J.E.

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . .Anhydrite
△ ank. . . . . .Ankerite
△ anna . . . . . Annabergite
△ ap. . . . . .Apatite
△ arg . . . . . Argentite
△ As . . . . . .Arsenic
△ asp . . . . . .Arsenopyrite
△ asb . . . . . .Asbestos
△ ba. . . . . .Barite
△ be. . . . . .Beryl
△ Bi. . . . . .Bismuth
△ bn . . . . . .Bornite
△ bran . . . . . .Brannerite
△ bruc . . . . . .Brucite
△ Cd . . . . . .Cadmium
△ calc. . . . . .Calcite
△ carb . . . . . .Carbonate
△ cel . . . . . .Celestite
△ cc. . . . . .Chalcocite
△ cp. . . . . .Chalcopyrite
△ ch. . . . . .Chert
△ clay . . . . . .Clay
△ Co . . . . . .Cobalt
△ cob. . . . . .Cobaltite
▲ cb. . . . . .Columbite
△ Cu . . . . . .Copper
△ cor . . . . . .Corundum
△ dol . . . . . .Dolomite
△ ep. . . . . .Epidote
△ ery . . . . . .Erythrite
▲ fel . . . . . .Feldspar
△ fl . . . . . .Fluorite (fluorspar)
△ fu. . . . . .Fuchsite
△ gn. . . . . .Galena
△ gt. . . . . .Garnet
△ goe . . . . . .Goethite
△ Au . . . . . .Gold
△ gf. . . . . .Graphite
△ gl . . . . . .Gravel
△ gyp. . . . . .Gypsum
△ hem . . . . . .Hematite
△ il . . . . . .Ilmenite
△ Fe . . . . . .Iron
△ IF. . . . . .Iron Formation
△ jas . . . . . .Jasper
△ kaol . . . . . .Kaolinite (kaolin)
△ ky . . . . . .Kyanite
△ Pb . . . . . .Lead
△ lim . . . . . .Limonite
△ Li. . . . . .Lithium
△ mgst . . . . . .Magnesite
△ mag . . . . . .Magnetite
△ mc . . . . . .Malachite
△ Mn . . . . . .Manganese
△ mb . . . . . .Marble
△ mar. . . . . .Marcasite
△ ma . . . . . .Marl
▲ mi . . . . . .Mica
△ ml . . . . . .Millerite
△ mo . . . . . .Molybdenite
▲ Mo . . . . . .Molybdenum
△ mon . . . . . .Monazite
△ ne. . . . . .Nephelite (nepheline)
△ nc. . . . . .Niccolite
△ Ni. . . . . .Nickel
▲ Nb . . . . . .Niobium
△ Pd . . . . . .Palladium
△ peat . . . . . .Peat
△ pent . . . . . .Pentlandite
▲ Pt. . . . . .Platinum
△ py . . . . . .Pyrite
△ pyl . . . . . .Pyrochlore
△ pyrl . . . . . .Pyrolusite
△ po . . . . . .Pyrrhotite
△ q . . . . . .Quartz
△ qcv . . . . .Quartz carbonate vein
△ ra. . . . . .Radioactive minerals
△ RE . . . . . .Rare Earths
△ sd. . . . . .Sand
△ sgl . . . . . .Sand and gravel
△ ss . . . . . .Sandstone
△ scap . . . . . .Scapolite
△ shee . . . . . .Scheelite
△ serp . . . . . .Serpentine
△ sh. . . . . .Shale
△ sid . . . . . .Siderite
△ si . . . . . .Silica
△ Ag . . . . . .Silver
△ sl . . . . . .Slate
△ sm . . . . . .Smaltite
△ sod . . . . . .Sodalite
△ spec . . . . . .Specularite
△ sp. . . . . .Sphalerite
△ spd . . . . . .Spodumene
△ staur . . . . . .Staurolite
△ stib. . . . . .Stibnite
△ st . . . . . .Stone
△ talc. . . . . .Talc
△ Te . . . . . .Tellurium
△ td. . . . . .Tetrahedrite
△ th. . . . . .Thorite
▲ Th . . . . . .Thorium
△ thuc . . . . . .Thucholite
△ ti . . . . . .Titanite
△ Ti. . . . . .Titanium
△ tour . . . . . .Tourmaline
△ trap . . . . . .Trap rock
△ W. . . . . .Tungsten
△ uran . . . . . .Uraninite
▲ U . . . . . .Uranium
△ verm . . . . . .Vermiculite
△ Y . . . . . .Yttrium
△ Zn . . . . . .Zinc
△ zr. . . . . .Zircon

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Barnet, T. F. Con. XII + XIII, Lots 33, 34 and 37	U, Th			OGS 1980,OFR5294,p.139-142 GSC Radioactive Resources Div. File 31F/3-5 OGS Map P.2210 Radioactive Mineral Deposits of the Pembroke-Renfrew Area,Scale 1:126720 (1980)
B	Grindstone Lake Con. XI, Lot 4, 5	fel ,mi		OGS 1967,IMR 21, p.30	OGS 1980,OFR 5296, p.304 OGS Map,P2209, Industrial Minerals of the Pembroke-Renfrew Area, Scale 1:126720 (1979) Mines Br. Rept.701,1929,p.81 Mines Br.Rept.401, 1916,p.26 GSC 1915,Memoir 74, p. 163 Mines Br.Rept.118,1912,p.202 GSC 1904,Sept. Rept.864,p.7
C	Kring Lot 5, N.E. Range	Mo		OGS 1968,MRC No.7, p.24	Mines Br. Rept. 592, 1925 NMI File 31/C15, F2, Mol OGS 1917, Vol.26,p.275-313 Can. Dept.Mines Br.Pub.93, 64 p., 1911
D	Salmond, K. Con. VIII, Lot 37	U, Th			OGS 1980,OFR5294,p.143-144 GSC, Radioactive Resources Div., File 31F/3-2 OGS Map P2210 Radioactive Mineral Deposits of the Pembroke-Renfrew Area, Scale 1:126720 (1980)

GDIF FORM NO. 1

MILLER TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
E	Whytock (Plevna Mine) Con. V, Lot 10	fel ,U Nb,cb		OGS 1971,MRC14,p45 OGS 1967,IMR21,p19	OGS 1980,OFR 5294,p.145-147 OGS 1980,OFR 5296,p.305-307 OGS 1971,OFR 5057, p.2-3 GSC 1970,Paper 69-45,p.445 OGS 1956,Vol.65, pt. 6, p.20 Mines Br. Rept. 851, 1953 NMI File 31/F3 Cb 1 NMI File 31/F2 070508 OGS Map P2209 Industrial Minerals of the Pembroke-Renfrew Area, Southern Ontario, Scale 1:126720(1979) Lot 15, S W Range
F	Con. I, Lot 13	py			GSC An.Rept. Vol.13, 1900
G	Con. II, Lot 24	mi		Mines Br.Rept.701, 1929	
H	Con. VIII, Lot 3	Mo			GSC Sept. Rept. 872, 1904 NMI File 31C/15, 1,2

GDIF FORM NO. 1

MILLER TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks

GDIF FORM NO. 1

TYPE OF WORK

Numbers below represent the year in which the work was done; e.g., 68 for 1968.

EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE TYED		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
	COMPANY/AUTHOR (file number)																			
1	Beach Gold Mines Ltd.										76									
2	Doranium Corp.	56			56									56						
3	Skimming, T.&Assoc. Ltd. -optioned to Geophysical Engineering			79								77		77 79						
4	Wright, R.J.											78	78	78						

GDIF FORM NO. 2

MILLER TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole Degrees	Thickness of Overburden	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
1	Doranium Corp.	1	1956		90		100	cpy, py	
		2	1956		90		100		
		3	1956		90		100		
		4	1956		90		100	cpy, py	
2	Doranium Corp.	5	1956				150		
3	Doranium Corp.	6	1956				151		
4	J.A. Lyle	1	1958		5E		29		
		2	1958		5E		28		
		3	1958		10E		30		
		4	1958		5E		28		
		5	1958		5E		27		
		6	1958		90		28		
		7	1958		5E		29		
		8	1958		14E		41		
5	J.A. Lyle	1	1958		10W		36		
		2	1958		90		34		
		3	1958		10E		30		
		4	1958		90		29		
6	J.A. Lyle	1	1958		90		32		
		2	1958		14E		26		
		3	1958		14E		37		
		4	1958		90		30		
		5	1958		10W		29		

GDIF FORM NO.

MILLER TOWNSHIP 80

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing

GDIF FORM NO. 4

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

GDIF FORM NO

MILLER TOWNSHIP

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

Radioactivity Survey, 1956 - Doranium Corp.

Scintillometer Survey, 1979 - Geophysical Engineering Ltd.

Magnetometer & VLF-EM Survey, 1978 - Skimming, T & Assoc. Ltd.

Electromagnetic, Magnetic and Radiometric Survey, 1978 - Wright, R.J.

GDIF FORM NO.6

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Kemptville, Ontario.

ODM GENERAL INDEX SEARCH

Words searched: MILLER TOWNSHIP

Index Volume	Listing:	Report Volume	Part	Page
1	Miller Township			
	Granite	11		203
	Marble	R.C.		80
	Mica	R.C.		150
		1		244
		9		203
	Mining	11		289
	Muscovite	9		205
	Molybdenite	9		205
		25	(i)	20
2	Miller Township			
	Molybdenite claim	26		305
6	Miller Township			
	Pyrochlore analyses	65	6	20,21
	Talc	65	7	45

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

GDIF FORM NO. 8

MILLER TOWNSHIP

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Masson, S. L. and Gordon, J. B.	1981	Radioactive Mineral Deposits of the Pembroke-Renfrew Area, NTS 31F	OGS MDC 23 Map P.2210	
Vos, M. A. and Storey, C. C.	1981	Industrial Minerals of the Pembroke-Renfrew Area NTS 31F, Part 2	OGS MDC 22 Map P.2209	
		GEOPHYSICAL MAPS		
G.S.C.	1981	Aeromagnetic Maps - Miller Township	68G, 96G, 69G, 97G	1"=1 mile
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
O.G.S.	1973	Southern Ontario Physiography, South East	Map 2227	
		MINERAL POTENTIAL MAPS		
Springer, Janet	1978	Ontario Mineral Potential, Pembroke and Part of the Ottawa Sheets, District of Nipissing and Counties of Renfrew, Hastings, Lennox and Addington, Frontenac, Lanark, Ottawa-Carleton, Grenville, and Dundas. Mineral Deposits Series.	OGS Map P.1507	1:250 000

SELECTED REFERENCES

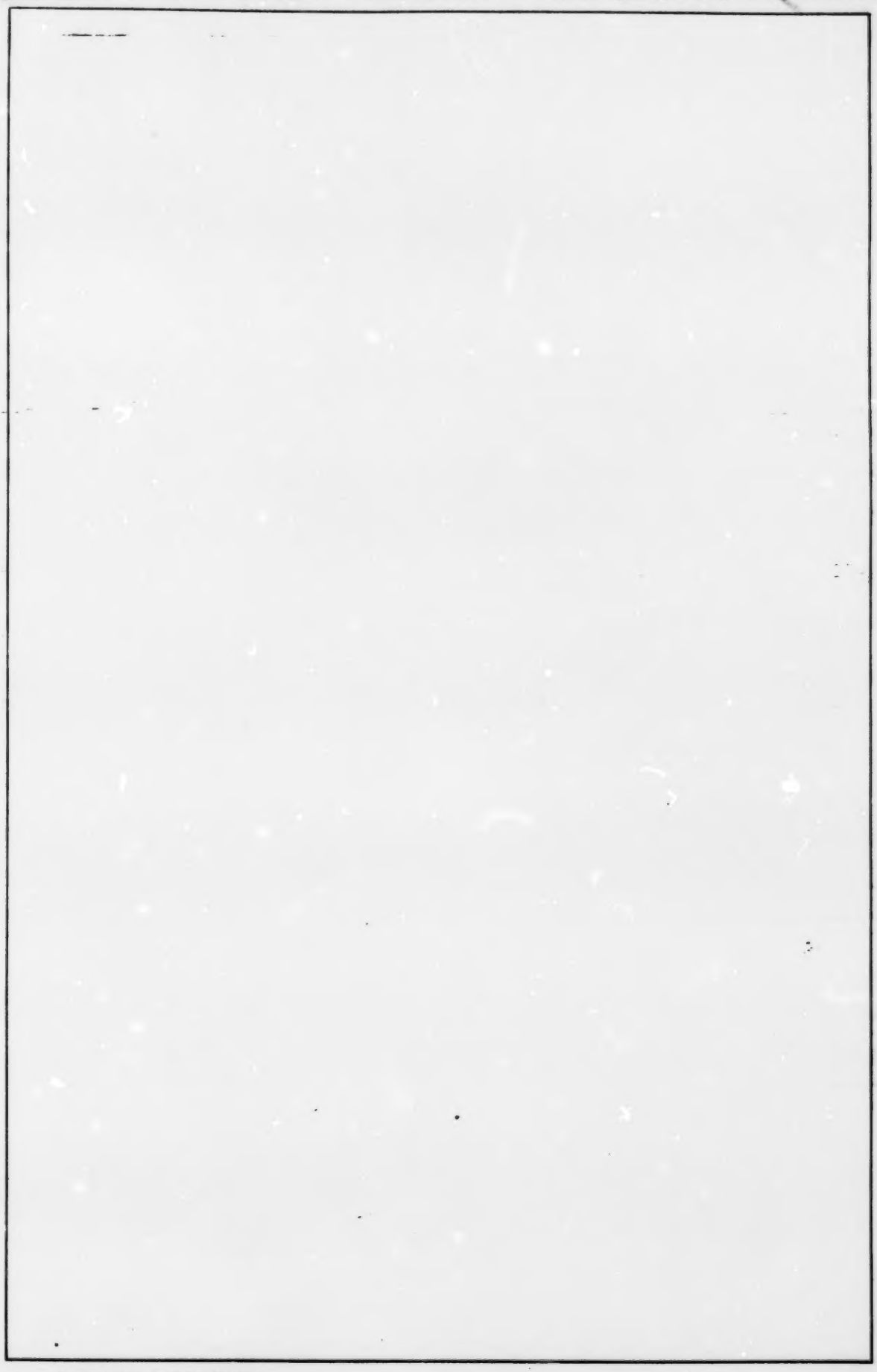
Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOCHEMICAL		
		GEOLOGICAL REPORTS AND MAPS		
Hewitt, D. F.	1967	Pegmatite Mineral Resources of Ontario	OGS IMR 21	
Gorden, J. B. and Mason, S. L.	1980	Radioactive Mineral Deposits of the Pembroke-Renfrew Area	OGS OFR 5294 Map P.2210	
Vos, M. A. and Storey, C. C.	1980	Industrial Minerals of the Pembroke-Renfrew Area, Part 2	OGS OFR 5296 Map P.2209	
		JOURNAL ARTICLES, THESES, TECHNICAL REPORTS		

NOTES AND ADDENDA

Aerial Photographs on File

Scale 1"=¼ mile

Year	Roll Number	Line Number	Photo Number
1978	153, 157	4509	179, 5
1978	153, 144	4508	219-224,195-197
1978	111	4507	24 - 38
1978	154	4506	28 - 42
1978	107	4505	22 - 36
1978	116	4504	39 - 54
1978	154	4503	118 - 132
1978	154	4502	225 - 239
1978	154	4501	189 - 204
1978	187	4469	46 - 48
1978	161	4468	206 - 210



MILLER TOWNSHIP

MAPS NOT

FILMED

CARTES

OMISES